



INTERNATIONAL BUREAU OF PATENT COOPERATION
35, rue de la Harpe, CH-1015, Yvertois, Suisse
P.O. Box 68, CH-1015, Yvertois, Suisse
P.O. Box 68, CH-1015, Yvertois, Suisse

542 532

(43) International Publication Date
5 August 2004 (05.08.2004)

PCT

(10) International Publication Number
WO 2004/065130 A1

(51) International Patent Classification⁷: B41M 5/00

(21) International Application Number:
PCT/EP2004/000131

(22) International Filing Date: 12 January 2004 (12.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
SV2003A000001 17 January 2003 (17.01.2003) IT

(71) Applicant (for all designated States except US): FERRANIA S.p.A. [IT/IT]; Viale della Libertà, 57, I-17014 Ferrania/Cairo Montenotte (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): SISMONDI, Alain, Dominique, M. [FR/IT]; Ferrania S.p.A., Viale Della Libertà, 57, I-17014 Ferrania/Cairo Montenotte (IT).

(74) Agent: ALLAIX, Roberto; Ferrania S.p.A., Intellectual Property Department, Viale della Libertà, 57, I-17014 Ferrania/Cairo Montenotte (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

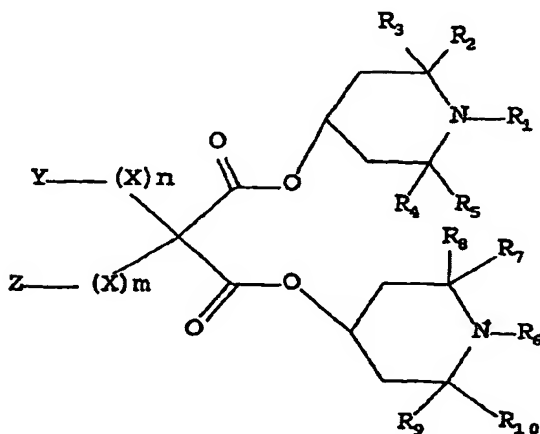
— of inventorship (Rule 4.17(iv)) for US only

Published:

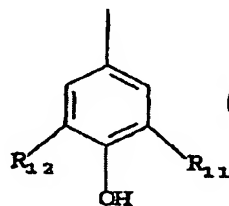
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: INK-JET RECORDING MATERIAL



(I)



(II)

(57) Abstract: The present invention refers to an ink-jet recording material having at least one porous ink receiving layer comprising alumina particles, a binder resin, boric acid or borate, and a color fading inhibitor compound of the following Formula (I) wherein R_1 to R_{10} , being the same or different, each is an alkyl group having from 1 to 5 carbon atoms; X is a divalent linking group; m and n , equal or different, are 0, 1 or 2; Z is Y or is an alkyl group having from 1 to 12 carbon atoms, and Y is represented by formula (II), wherein R_{11} and R_{12} each being an alkyl group having from 1 to 6 carbon atoms, said ink-jet recording material being substantially free of thiocyanate compounds. The invention also refers to the use of an ink-jet recording material as described above, to improve the gas resistance, of the images recorded on it.